P/ TENT COOPERATION TREAT

	From the INTERNATIONAL BUREAU			
PCT	To:			
NOTIFICATION OF ELECTION (PCT Rule 61.2) Date of mailing (day/month/year) 02 May 2001 (02.05.01)	Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202 ETATS-UNIS D'AMERIQUE in its capacity as elected Office			
International application No.				
PCT/GB00/02903	Applicant's or agent's file reference PC/MG/P10870PC			
International filing date (day/month/year)	Priority date (day/month/year)			
28 July 2000 (28.07.00)	30 July 1999 (30.07.99)			
Applicant				
MORRISON, James, Duncan et al				
The designated Office is hereby notified of its election made In the demand filed with the International Preliminary 22 February 20 in a notice effecting later election filed with the International Preliminary	Examining Authority on: 01 (22.02.01)			
2. The election X was was was not was not made before the expiration of 19 months from the priority da Rule 32.2(b).	ite or, where Rule 32 applies, within the time limit under			

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Juan Cruz

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Anntinonti		and Slaves				
PC/MG/		gent's file reference	FOR FURTHER ACTION	See Notifi	ication of Transmittal of International	
					ry Examination Report (Form PCT/IPEA/416)	
International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/GB00/02903 28/07/2000 30/07/1000						
PCT/GB00/02903 28/07/2000 30/07/1999 International Patent Classification (IPC) or national classification and IPC						
C07K14	/595	ent Classification (IPC) or na	tional classification and IPC			
	IVEF	RSITY COURT OF THE	UNIVERSITY OF GLASGO)W		
1. This and i	intern s tran	national preliminary exami semitted to the applicant a	nation report has been prepare ccording to Article 36.	ed by this Int	emational Preliminary Examining Authority	
2. This	REPO	ORT consists of a total of	5 sheets, including this cover	sheet.		
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total of sheets.						
3. This r	eport	contains indications relat	ing to the following items:			
1	×	Basis of the report				
II		Priority				
W.		Non-establishment of op	pinion with regard to novelty, in	ventive step	and industrial applicability	
١٧		Lack of unity of invention	n			
V A Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations suporting such statement						
VI		Certain documents cited				
VII		Certain defects in the int	ternational application			
VIII	Ø	Certain observations on	the international application			
Date of sub	Date of submission of the demand			completion of	this report	
22/02/200	01		06.12.2	•	•	
		address of the international ning authority:	Authoria	zed officer	STAGE AND THE	
<u>)</u>	Euro D-80 Tel.	pean Patent Office 1298 Munich +49 89 2399 - 0 Tx: 523656 (epmu d)	The state of the s	
	Fax: +49 89 2399 - 4465			ne No. +49 89	2399 8668	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02903

I. I	Basis	of	the	report
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1.	the and	receiving Office in re	ents of the international application (Replacement sheets which have been furnished to esponse to an invitation under Article 14 are referred to in this report as "originally filed" this report since they do not contain amendments (Rules 70.16 and 70.17)):
	1-2	2	as originally filed
	Cla	ims, No.:	
	1-2	3	as originally filed
2.	Witi lang	h regard to the lang guage in which the ir	uage, all the elements marked above were available or fumished to this Authority in the attemational application was filed, unless otherwise indicated under this item.
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:
		the language of a tr	anslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pub	plication of the international application (under Rule 48.3(b)).
		the language of a tr 55.2 and/or 55.3).	anslation furnished for the purposes of international preliminary examination (under Rule
3.	Witl inte	n regard to any nucl mational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inte	ernational application in written form.
		filed together with the	ne international application in computer readable form.
		furnished subseque	ently to this Authority in written form.
		furnished subseque	ently to this Authority in computer readable form.
			the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.
		The statement that listing has been furn	the information recorded in computer readable form is identical to the written sequence nished.
4.	The	amendments have i	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
5.			n established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):



International application No. PCT/GB00/02903

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: No:

Claims

Claims 1-10,12,15,16,18-23

Inventive step (IS)

Yes: Claims

No:

Claims 11,13,14,17

Industrial applicability (IA)

Yes:

Claims 1-23

No: Claims

2. Citations and explanations see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet





- 1. Reference is made to the following documents:
 - D1: US-A-5 446 026 (RUFF ET AL.) 29 August 1995 (1995-08-29)
 - D2: EP-A-0 417 725 (HOECHST AG) 20 March 1991 (1991-03-20) & US 5 646 272 A 8 July 1997 (1997-07-08) cited in the application
 - D3: P W SWAAN ET AL.: 'Enhanced transepithelial transport of peptides by conjugation to cholic acid' BIOCONJUGATE CHEMISTRY., vol. 8, no. 4, 1997, pages 520-525, XP002158726 AMERICAN CHEMICAL SOCIETY, WASHINGTON., US ISSN: 1043-1802
 - D4: DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE. COLUMBUS, OHIO, US; STEPHAN, ZOUHAIR F. ET AL: 'Reduction of cardiovascular and thyroxine-suppressing activities of L-T3 by liver targeting with cholic acid' retrieved from STN Database accession no. 117:63425 CA XP002158727 cited in the application & BIOCHEM. PHARMACOL. (1992), 43(9), 1969-74, 1992,

Ad Section V: Reasoned statement under Rule 66.2(a)(ii); citations and explanations supporting such statement

- 2. **Novelty (Article 33 (2) PCT)**
- 2.1 D1 discloses an amide of a bile salt selected from cholate, deoxycholate and chenodeoxycholate wherein the group bound to the bile salt by the amide bond is a calcitonin decapeptide amide which was also identified as being an analgesic (see claims 1-7). D1 further discloses pharmaceutical compositions comprising this compound and their use for subcutaneous injection (see col.2 lines 35-54, claims 8-11). As a consequence, claims 1-10, 12, 15, 18-23 lack novelty.
- 2.2 D3 discloses that conjugation of peptides with cholic acid enhances transepithelial transport, ie. oral absorption (see Title). Several bile acid-peptide conjugates were tested, based on the general structural formula shown in Fig. 1, and the transport ability measured (see Table 1, Fig.2 and 3). The results show that this approach has the potential to increase intestinal absorption of otherwise poorly absorbed peptide molecules (see p.525 col.1 2§). Thus, D3 anticipates claims 1-10, 15, 16, 18-22.

3. Inventive step (Article 33 (3) PCT)

Dependent claims 11, 13-14, 17 do not appear to contain any additional features which, in combination with the features of the claims to which they refer, would render these claims inventive.

Ad Section VIII: Certain observations on the international application.

4. Clarity (Article 6 PCT)

Claim 18 lacks clarity, since the term "derivative" is vague and indefinite. The characteristic of being "physiologically functional" does not help to identify what is readily meant here. The applicant should define in the claim what is understood by said term.



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FOR FURTHER see Notification of Transmittal of International Search Report							
PC/MG/P10870PC ACTION (Form PCT/ISA/220) as well as, where applicable, item 5 below.							
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/GB 00/02903 28/07/2000 30/07/1999							
Applicant							
THE HALVEDGLEY COURT OF T	IE INTUEDOTTU OF ALLEGO						
THE UNIVERSITY COURT OF THE	HE UNIVERSITY OF GLASGOW						
This International Search Report has been	n prepared by this International Searching Auth	ority and is transmitted to the applicant					
according to Article 18. A copy is being tra	insmitted to the International Bureau.						
This International Search Report consists							
X It is also accompanied by	a copy of each prior art document cited in this	report.					
Basis of the report							
With regard to the language, the interpretable language in which it was filed, unless that the same interpretable is a second control of the same interpretable in the same interpretable interpretable in the same interpretable in the same interpret	nternational search was carried out on the basess otherwise indicated under this item.	is of the international application in the					
the international search was Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	e international application furnished to this					
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:							
	nal application in written form.						
filed together with the international application in computer readable form.							
furnished subsequently to this Authority in written form.							
furnished subsequently to this Authority in computer readble form.							
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished							
Certain claims were found unsearchable (See Box I).							
3. Unity of invention is lacking (see Box II).							
4. With regard to the title							
4. With regard to the title , the text is approved as submitted by the applicant.							
the text is approved as submitted by the applicant. The text is approved as submitted by the applicant. The text is approved as submitted by the applicant.							
IMPROVEMENT OF PEPTIDE TRANSPORT BY CONJUGATION WITH BILE ACIDS							
5. With regard to the abstract,							
TX the text is approved as sub	mitted by the applicant						
the text has been establish	ed, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	as it appears in Box III. The applicant may, ort, submit comments to this Authority.					
6. The figure of the drawings to be published.	shed with the abstract is Figure No.						
as suggested by the applic		None of the figures.					
because the applicant faile	=						
because this figure better o	haracterizes the invention.						

International Application No B 00/02903

a. classification of subject matte IPC 7 C07K14/595 C07 CO7K14/575

CO7K14/47

A61K47/48

A61K38/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\label{lower lower low$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 5 446 026 A (RUFF ET AL.) 29 August 1995 (1995-08-29) claim 1	1-10,12, 15-23
X	P W SWAAN ET AL.: "Enhanced transepithelial transport of peptides by conjugation to cholic acid" BIOCONJUGATE CHEMISTRY., vol. 8, no. 4, 1997, pages 520-525, XP002158726 AMERICAN CHEMICAL SOCIETY, WASHINGTON., US ISSN: 1043-1802 the whole document ————————————————————————————————————	1-10, 15-23

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents such combination being obvious to a person skilled in the art '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
30 January 2001	14/02/2001
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Masturzo, P

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Property B 00/02903

Continuation) DOCUMENTS CONSIDERA DE RELEVANT A EP 0 417 725 A (HOECHST AG) 20 March 1991 (1991-03-20) the whole document & US 5 646 272 A 8 July 1997 (1997-07-08) cited in the application A DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STEPHAN, ZOUHAIR F. ET AL: "Reduction of cardiovascular and thyroxine-suppressing activities of L-T3 by liver targeting with cholic acid" retrieved from STN Database accession no. 117:63425 CA XPO02158727 cited in the application & BIOCHEM. PHARMACOL. (1992), 43(9), 1969-74, 1992, abstract	A EP 0 417 725 A (HOECHST AG) 20 March 1991 (1991-03-20) the whole document & US 5 646 272 A 8 July 1997 (1997-07-08) cited in the application ——— A DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STEPHAN, ZOUHAIR F. ET AL: "Reduction of cardiovascular and thyroxine-suppressing activities of L-T3 by liver targeting with cholic acid" retrieved from STN Database accession no. 117:63425 CA XPO02158727 cited in the application & BIOCHEM. PHARMACOL. (1992), 43(9), 1969-74 , 1992,	1-23
20 March 1991 (1991-03-20) the whole document & US 5 646 272 A 8 July 1997 (1997-07-08) cited in the application A DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STEPHAN, ZOUHAIR F. ET AL: "Reduction of cardiovascular and thyroxine-suppressing activities of L-T3 by liver targeting with cholic acid" retrieved from STN Database accession no. 117:63425 CA XPO02158727 cited in the application & BIOCHEM. PHARMACOL. (1992), 43(9), 1969-74, 1992,	the whole document & US 5 646 272 A 8 July 1997 (1997-07-08) cited in the application A DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STEPHAN, ZOUHAIR F. ET AL: "Reduction of cardiovascular and thyroxine-suppressing activities of L-T3 by liver targeting with cholic acid" retrieved from STN Database accession no. 117:63425 CA XP002158727 cited in the application & BIOCHEM. PHARMACOL. (1992), 43(9), 1969-74, 1992,	
CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STEPHAN, ZOUHAIR F. ET AL: "Reduction of cardiovascular and thyroxine-suppressing activities of L-T3 by liver targeting with cholic acid" retrieved from STN Database accession no. 117:63425 CA XP002158727 cited in the application & BIOCHEM. PHARMACOL. (1992), 43(9), 1969-74, 1992,	CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; STEPHAN, ZOUHAIR F. ET AL: "Reduction of cardiovascular and thyroxine-suppressing activities of L-T3 by liver targeting with cholic acid" retrieved from STN Database accession no. 117:63425 CA XP002158727 cited in the application & BIOCHEM. PHARMACOL. (1992), 43(9), 1969-74, 1992,	1-23

Information on patent family members

International Application No
PC 3 00/02903

nily Publication

	document earch report		Publication date		Patent family member(s)	Publication date
US 54	46026	Α	29-08-1995	NONE	E	1
EP 417	7725	Α	20-03-1991	 DE	3930696 A	 28-03-1991
				AT	152117 T	15-05-1997
				AU	637822 B	10-06-1993
				AU	6244190 A	21-03-1991
				CA	2025294 A	15-03-1991
				DE	59010706 D	28-05-1997
				DK	417725 T	03-11-1997
				ES	2100858 T	01-07-1997
				FΙ	105155 B	30-06-2000
				GR	3024095 T	31-10-1997
				HU	56115 A,B	29-07-1991
				ΙE	903329 A	10-04-1991
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				JP	2568306 B	08-01-1997
				JP	3109396 A	09-05-1991
				JP	2642089 B	20-08-1997
				JP	8092276 A	09-04-1996
				JP	2642090 B	20-08-1997
				JP	8092277 A	09-04-1996
				KR	166962 B	15-01-1999
				NO	303450 B	13-07-1998
				NZ	235285 A	26-05-1993
				PT	95299 A,B	22-05-1991
				US	5462933 A	31-10-1995
				US	5668126 A	16-09-1997
				US	5646272 A	08-07-1997
				ZA	9007300 A	26-06-1991



REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only
International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"
Applicant's or agent's file reference

	Applicant's or agent's file reference (if desired) (12 characters maximum) PC/MG/P10870PC				
Box No. I TITLE OF INVENTION					
PEPTIDE TRANSPORT					
Box No. II APPLICANT					
Name and address: (Family name followed by given name; designation. The address must include postal code and name address indicated in this Box is the applicant's State (that is, co of residence is indicated below.)	Telephone No.				
THE UNIVERSITY COURT OF THE U	NIVERSITY				
OF GLASGOW No.10 THE SQUARE	Facsimile No.				
UNIVERSITY AVENUE					
GLASGOW G12 800	Teleprinter No.				
United Kingdom State (that is, country) of nationality:					
State (that is, country) of nationality: GB	State (that is, country) of residence: GB				
This person is applicant for the purposes of:	gnated States except the United States the States indicated in the States of America only the Supplemental Box				
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)					
Name and address: (Family name followed by given name; for designation. The address must include postal code and name of address indicated in this Box is the applicant's State (that is, cost of residence is indicated below.)	or a legal entity, full official fountry. The country of the untry) of residence if no State applicant only				
MORRISON James Duncan	X applicant and inventor				
West Medical Building					
University of Glasgow	inventor only (If this check-box is marked, do not fill in below.)				
University Avenue GLASGOW G12 800 United Kind					
GLASGOW G12 800 United Kind State (that is, country) of nationality:	State (that is, country) of residence:				
GB	GB				
This person is applicant for the purposes of: all designated states all designated the Unit	gnated States except the United States the States indicated in the States of America only the Supplemental Box				
Further applicants and/or (further) inventors are indicated on a continuation sheet.					
Box No. IV AGENT OR COMMON REPRESENTAT	IVE; OR ADDRESS FOR CORRESPONDENCE				
The person identified below is hereby/has been appointed to of the applicant(s) before the competent International Author	act on behalf agent common representative				
Name and address: McCALLUM, William Potter; MacDOUGALL Tymoteusz; NAISMITH, Robert Stewart; HC	Telephone N 0141 221 57				

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Andrew; NEWELL, Campbell; KERR, Sheila Agnes Fife; MORELAND, David;

CRUIKSHANK & FAIRWEATHER, 19 ROYAL EXCHANGE SQUARE,

GLASGOW G1 3AE, UNITED KINGDOM (GB)

GODWIN, Edgar James;

Facsimile No.

0141 221 7739

Teleprinter No.

		Sheet N	No2		_		
Continuation of Box No. III FU ER APPLICANT(S) AND/OR (FURTHER) IN FOR(S)							
If none of the following sub-boxes is used, this sheet should not be included in the request.							
Name and address: (Fan designation. The address address indicated in this of residence is indicated LUCAS Micha West Medica University University GLASGOW G12 United Kingo State (that is, country) of m	mily name followed by a must include postal constant is the applicant's below.) el Leslie 1 Building of Glasgow Avenue 800 dom	This person is: applicant only applicant and inventor inventor only (If this check-hox is marked, do not fill in below.) residence:					
This person is applicant	GB all designated	all designate	<u> </u>		GB		
for the purposes of:	States	the United S	d States except tates of America	LXI of	America only the States indicated in the Supplemental Box		
Name and address: (Fam. designation. The address address indicated in this B of residence is indicated by the second which is a second with the second with th	cah Building of Glasgow Evenue 8QQ	given name: for a de and name of cou tate (that is, countr)	legal entity. full (intry. The country g) of residence if n	official of the oState	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)		
State (that is, country) of na	ationality:		State (that is, co	ountry) of	residence:		
This person is applicant	GB		<u> </u>	G	В		
for the purposes of:	all designated States		States except ates of America	LXI of A	United States America only the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)							
State (that is, country) of na	tionality:		State (that is, co	ountry) of i	residence:		
This person is applicant		-11 4	<u></u>				
for the purposes of:	all designated States	the United Sta	States except ates of America	of A	United States America only the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)							
State (that is, country) of na	tionality:		State (that is, cou	untry) of re	sidence:		
This person is applicant for the purposes of:	all designated States	all designated the United Sta	States except stes of America		United States the States indicated in the Supplemental Box		

Further applicants and/or (further) inventors are indicated on another continuation sheet.

Box No.V DESIGNATION OF ST	
The following designations are hereby made u	nder Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):
Regional Patent	(-) (which the applicable check-boxes, at least one must be marked):
of the Harare Protocol and of the PCT	nia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leo Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting St
TA FA Eurasian Patent: AM Armenia AZ	Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldov FM Turkmenistan, and any other State which is a Contracting State of the Eurasian Pate
EP European Patent: AT Austria, BE	Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE German FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembour ugal, SE Sweden, and any other State which is a Contracting State of the European Pate
OA OAPI Patent: BF Burkina Faso, BJ	Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroo dissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and are API and a Contracting State of the PCT (if other kind of protection or treatment, days
National Patent (if other kind of protection or tree	***************************************
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AG Antigua and Barbuda	LC Saint Lucia
AL Albania	☑ LK Sri Lanka
AM Armenia	E LR LIDERIA
AT Austria	Lis Lesotito
AU Australia	Littiuania
AZ Azerbaijan	Lo Luxelloourg
BA Bosnia and Herzegovina	☑ LV Latvia
BB Barbados	Morocco
BG Bulgaria	MD Republic of Moldova
BR Brazil	and into intadagascal
BY Belarus	The former rugoslav Republic of Macedonia
BZ Belize	MIN Mongolia
CA Canada	MW Malawi
I CH and LI Switzerland and Liechtenstein	MX Mexico
CN China	MZ Mozambique
CR Costa Rica	1101112y
CU Cuba	THE THEW Zealand
CZ Czech Republic	PL Poland
DE Germany	Totagai
DK Denmark	RO Romania
DM Dominica	NO Russian redefation
DZ Algeria	SD Sudan
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X ES Spain	Singapore
X FI Finland	
TGB United Kingdom	Sie Sievania
I GD Grenada	SL Sierra Leone
	🔀 TJ Tajikistan
TGE Georgia	
XIGH Ghana	
	TT Trinidad and Tobago
HR Croatia	······ LX TZ United Republic of Tanzania
HU Hungary	
ID Indonesia	LA UG Uganda
IL Israel	US United States of America
IN India	UZ Uzbekistan
IS Iceland	X VN Viet Nam
XJP Japan	YU Yugoslavia
KE Kenya	Z ZA South Africa
KG Kyrgyzstan	Z ZW Zimbabwe
KP Democratic People's Republic of Korea	
KR Republic of Korea	Check-box reserved for designating States which have become party to the PCT after issuance of this sheet:
KZ Kazakhstan	en e
om the scope of this statement. The applicant d signation which is not confirmed before the expira	on to the designations made above, the applicant also makes under Rule 4.9(b) all other CT except any designation(s) indicated in the Supplemental Box as being excluded eclares that those additional designations are subject to confirmation and that any ion of 15 months from the priority date is to be regarded as withdrawn by the applicant leading feet) must reach the priority date.
the expiration of that time limit. (Confirmation (inc	luding fees) must reach the receiving Office within the 15-month time limit.)

Sheet No. .4....

Filing date of earlier application	1						
of earlier application				Further priority claim indicated in the Supplemental B Where earlier application is:			
(day/month/year)	or ea	arlier applicat	ion	national application: country	regional application:*	international application	
item (1)						receiving Office	
30/07/2000	991	17793.3		GREAT BRITA	IN		
item (2).							
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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 8 February 2001 (08.02.2001)

PCT

(10) International Publication Number WO 01/09163 A2

(51) International Patent Classification⁷:

C07J

- (21) International Application Number: PCT/GB00/02903
- (22) International Filing Date: 28 July 2000 (28.07.2000)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

9917793.3

30 July 1999 (30.07.1999) GI

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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

 Without international search report and to be republished upon receipt of that report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PEPTIDE TRANSPORT

(57) Abstract: The present invention relates to improving and/or increasing the bioavailability of a biologically active substance, such as a peptide. In particular the present invention relates to the conjugation of the biologically active substance to a bile acid. The conjugated biologically active substance is suitable particularly for oral or parental administration.